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FIG. 1

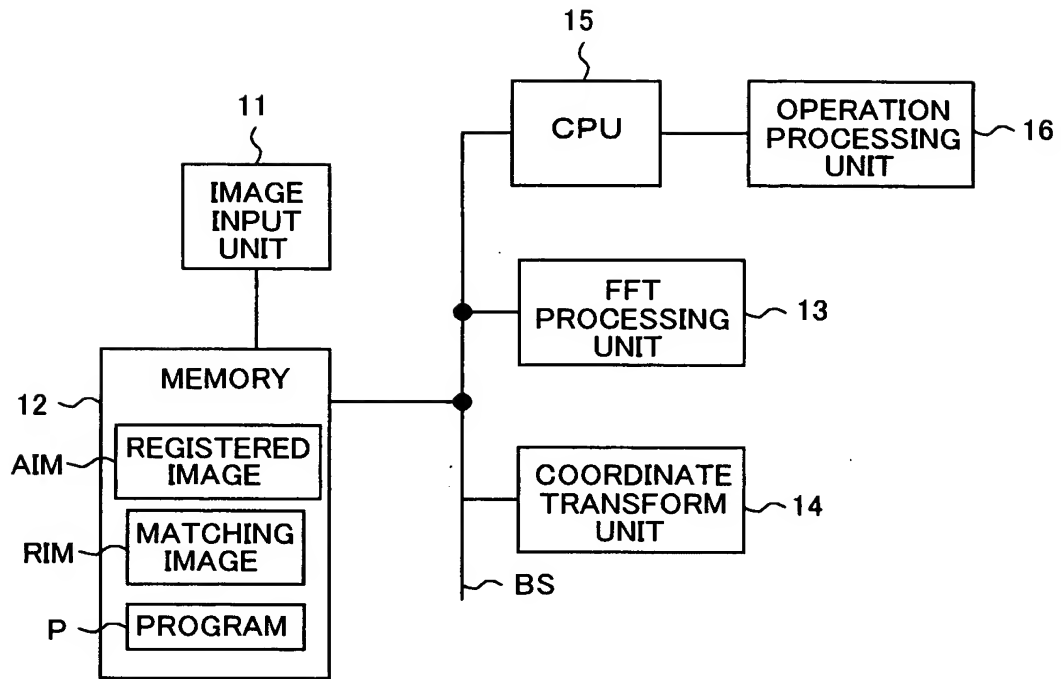
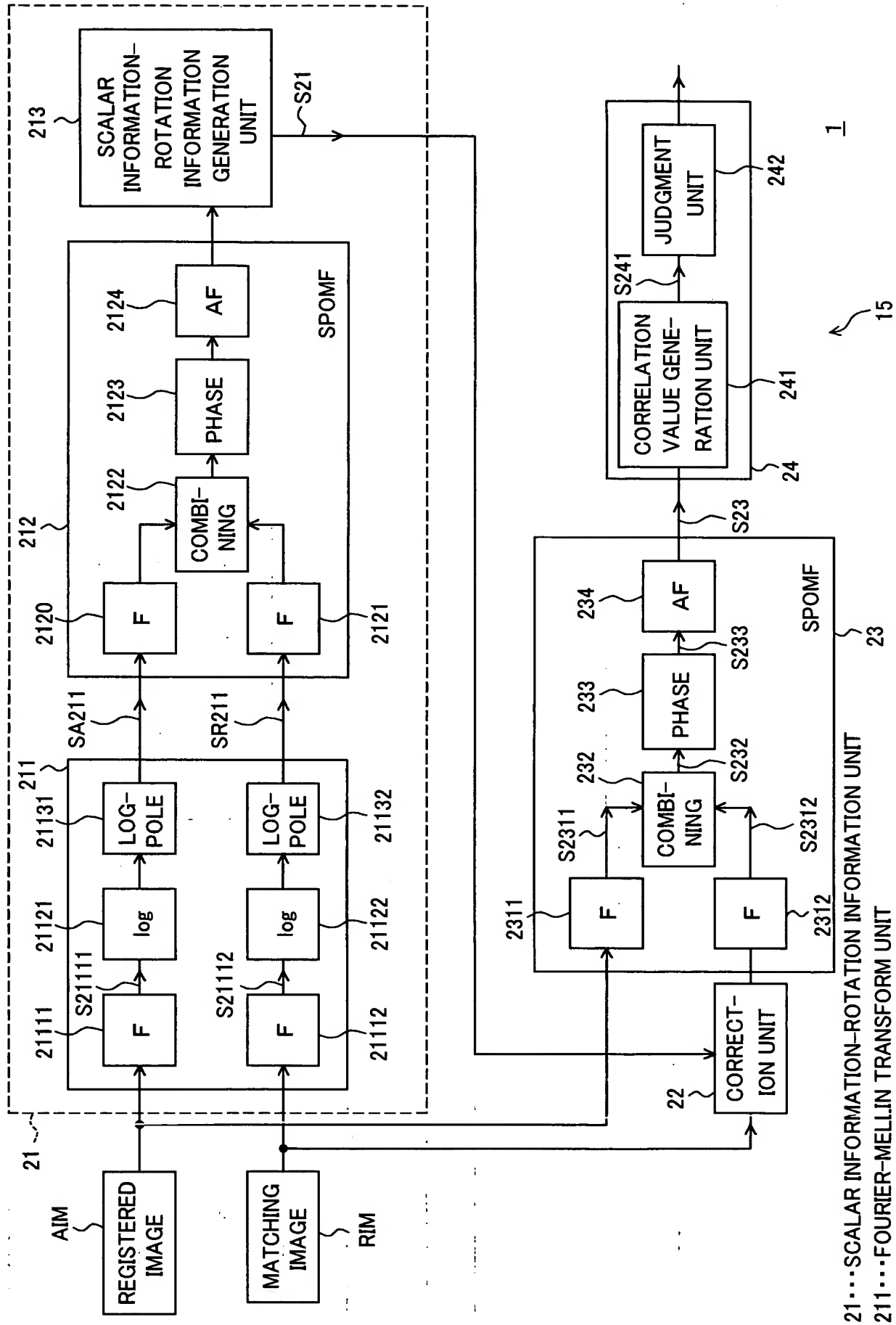


FIG. 2



21... SCALAR INFORMATION-ROTATION INFORMATION UNIT
211... FOURIER-MELLIN TRANSFORM UNIT
212... PHASE ONLY CORRELATION UNIT
22... CORRELATION VALUE GENERATION UNIT
23... JUDGMENT UNIT
24... MATCHING MOVEMENT UNIT

FIG. 3

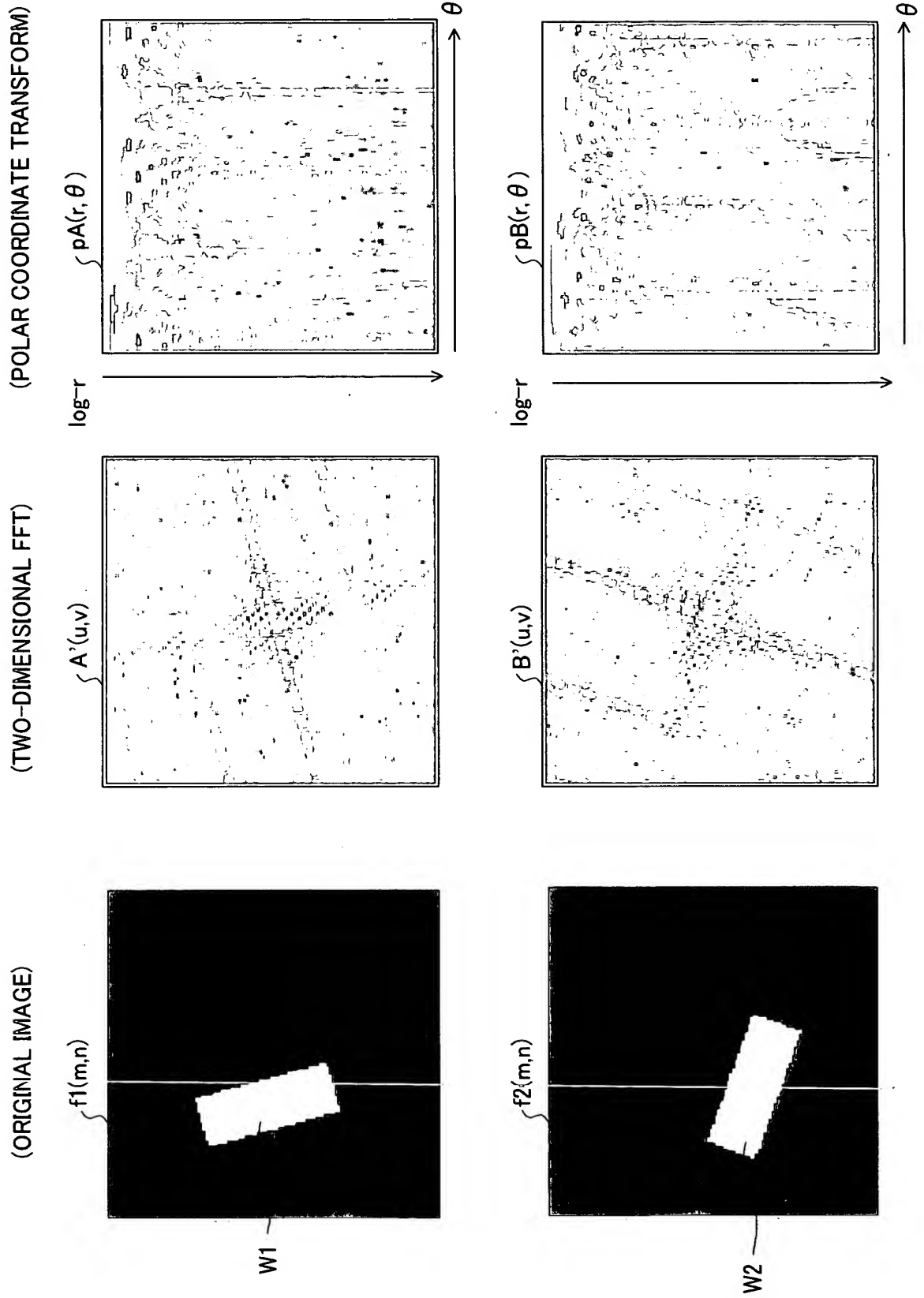
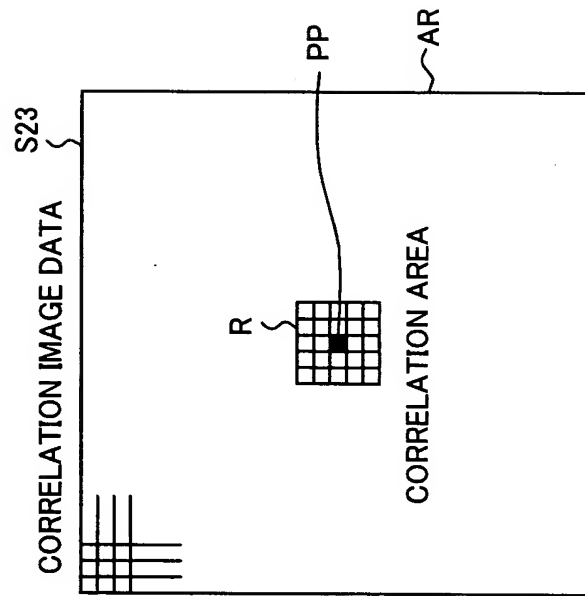


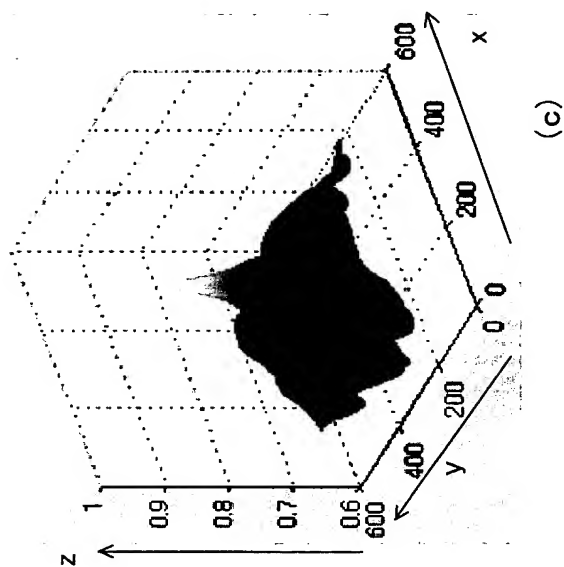
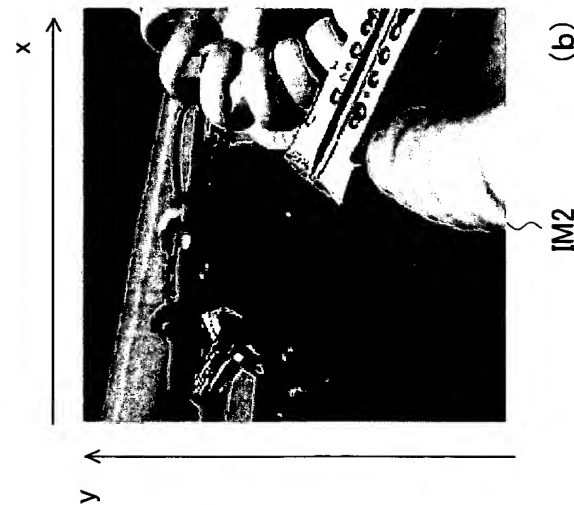
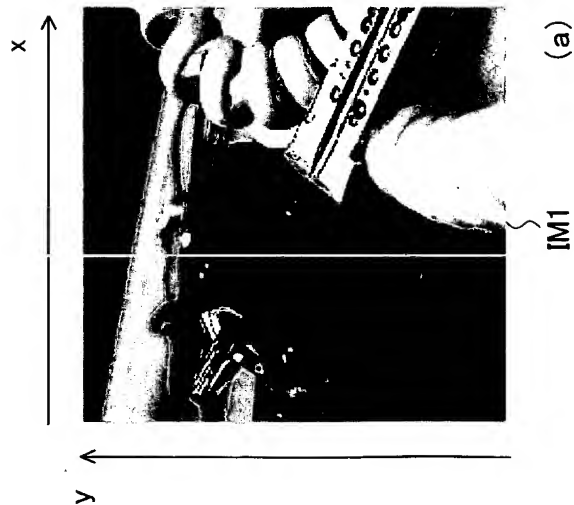
FIG. 4



■ PEAK POSITION OF CORRELATION COMPONENT

FIG. 5

(SELF CORRELATION)



(PHASE ONLY CORRELATION)

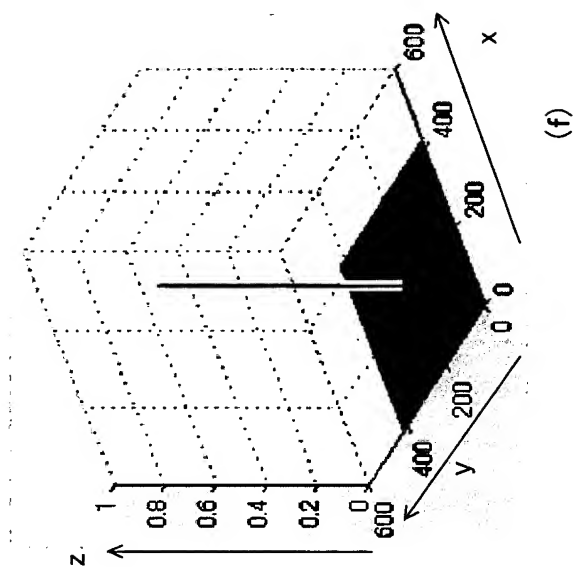
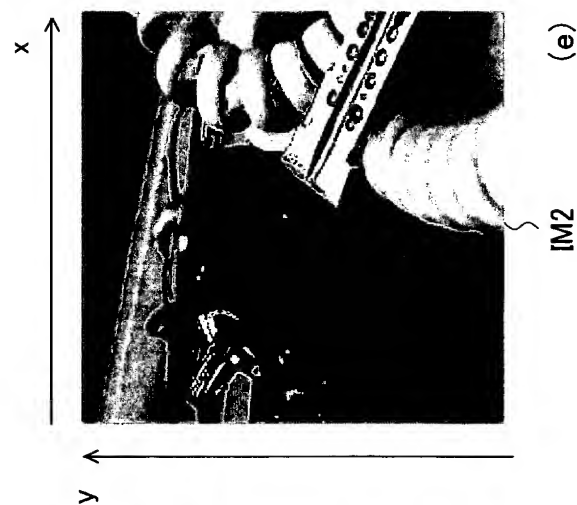
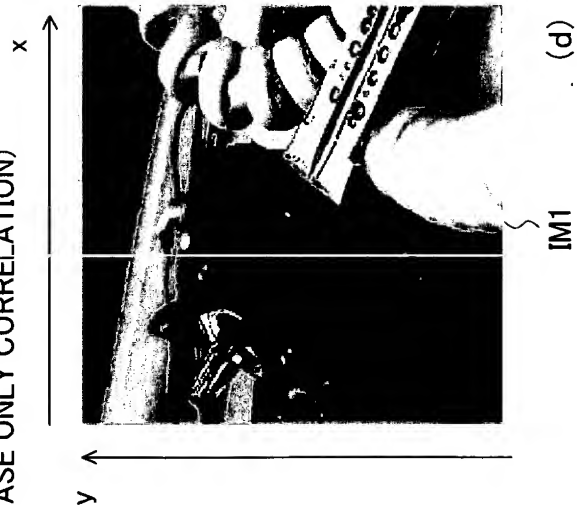


FIG. 6

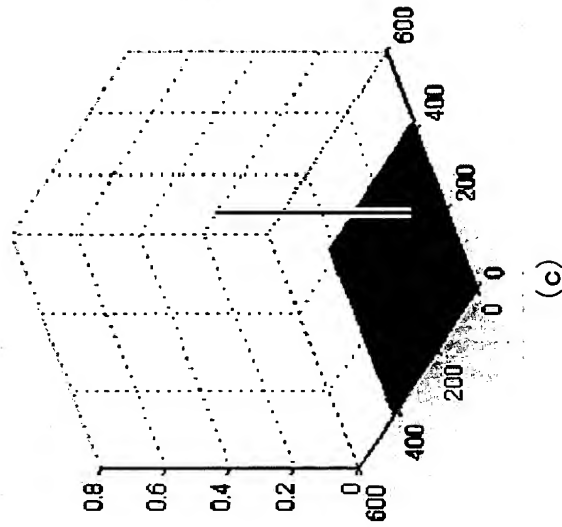
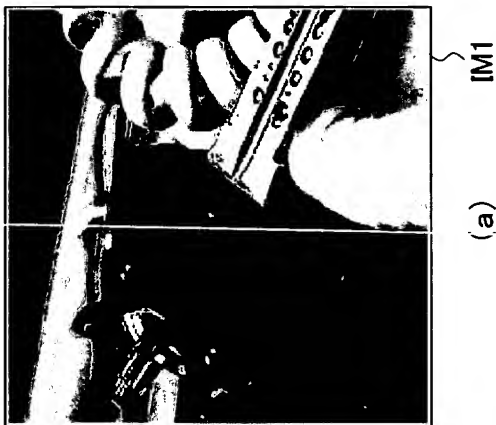


FIG. 7

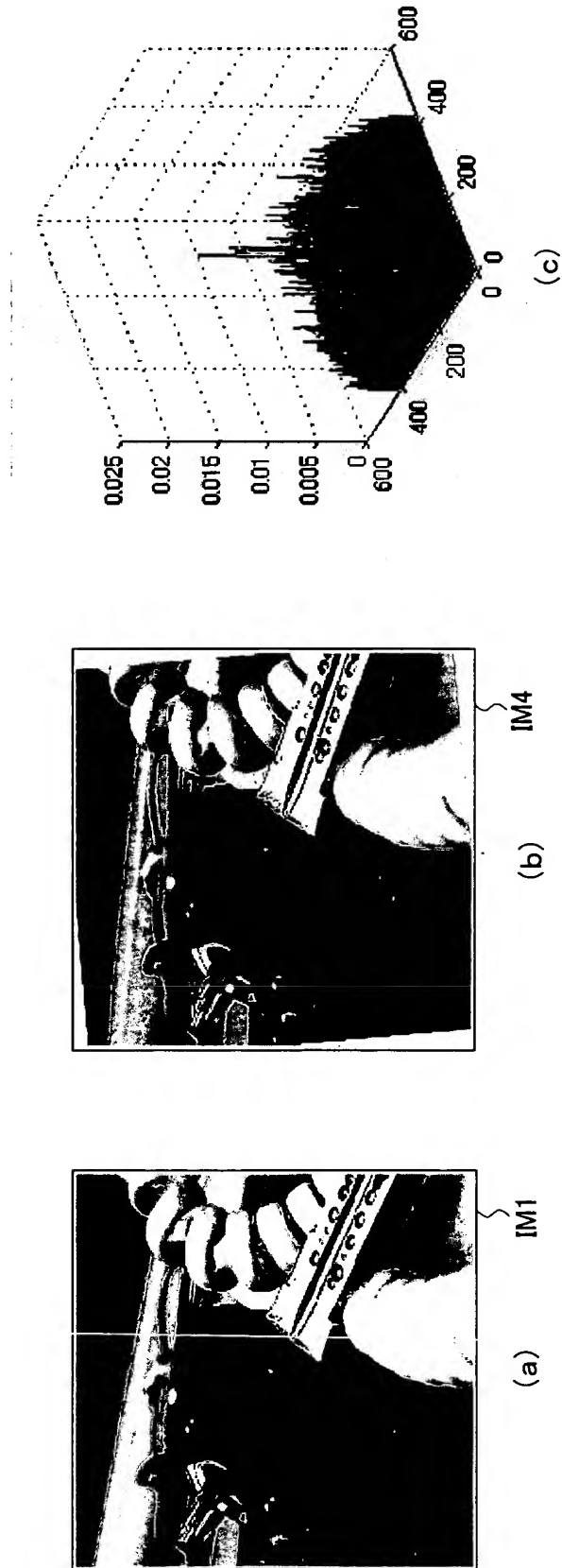


FIG. 8

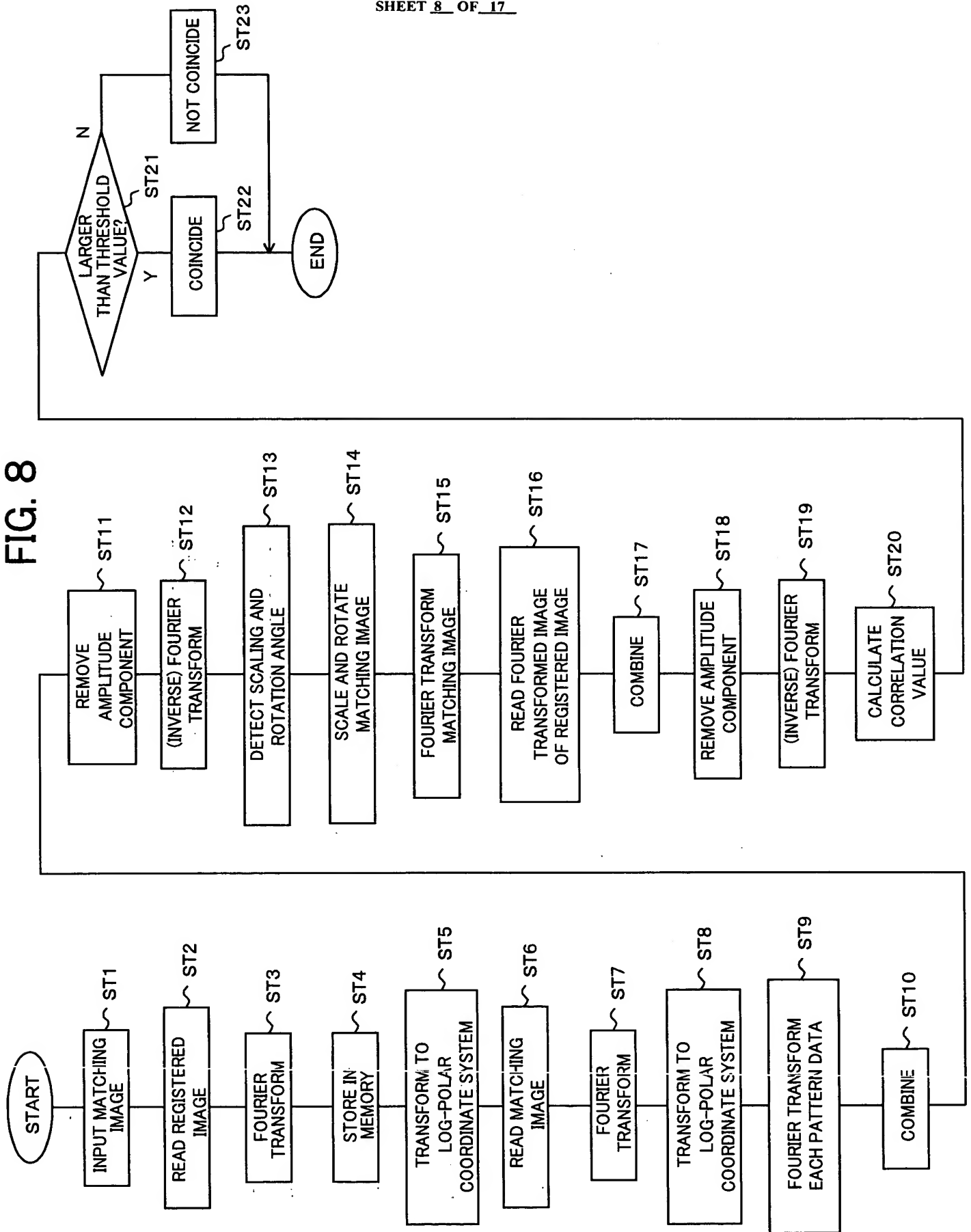
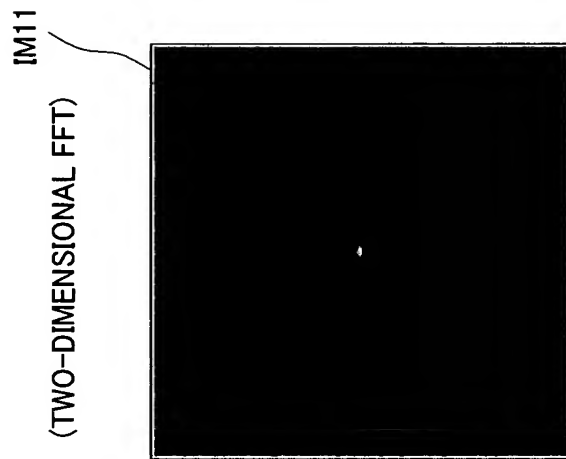
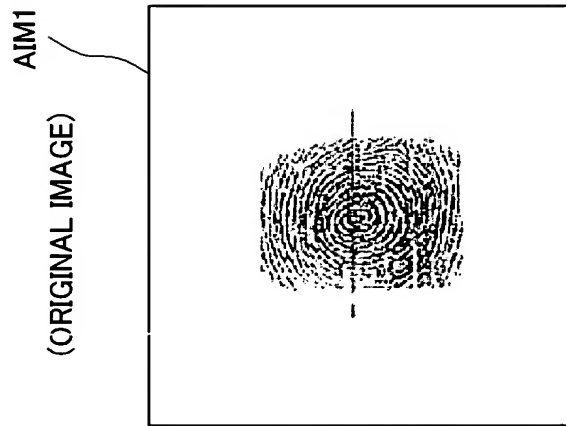


FIG. 9



(POLAR COORDINATE TRANSFORM)

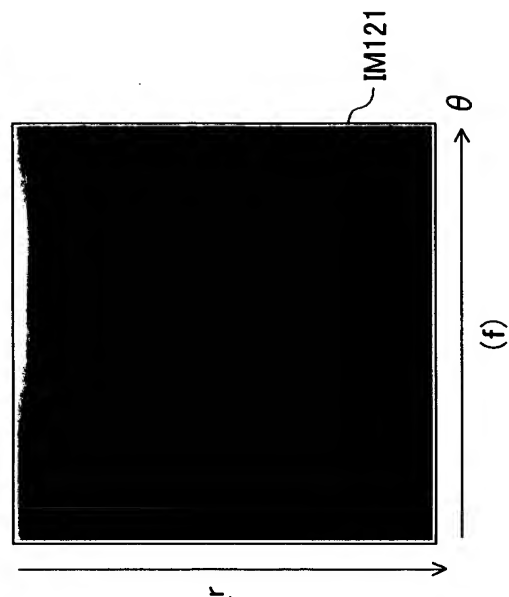
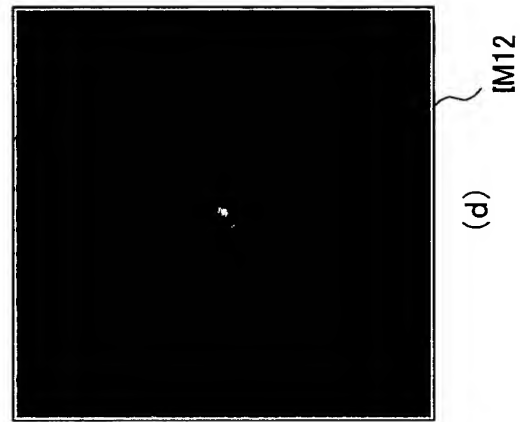
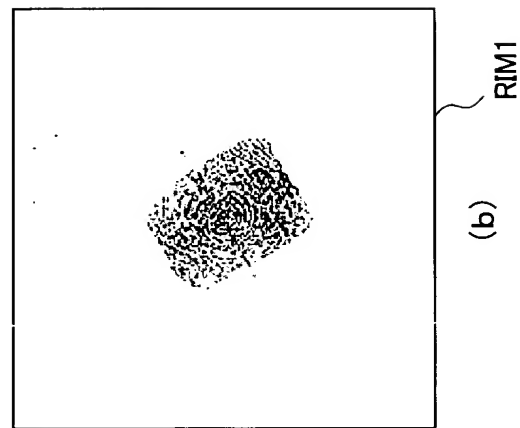
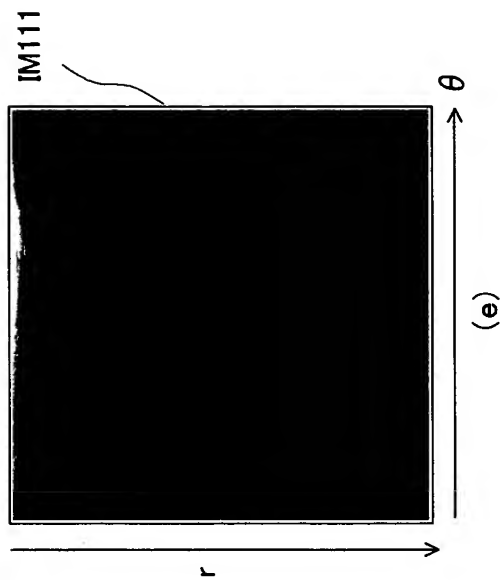
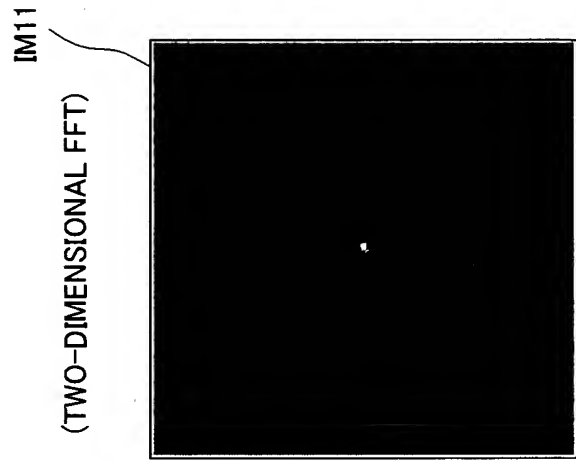
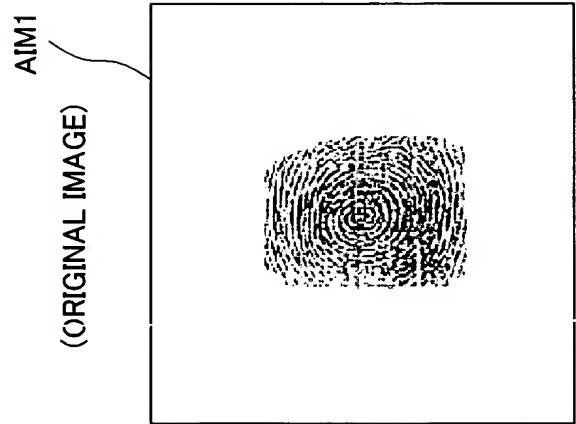


FIG. 10



(POLAR COORDINATE TRANSFORM)

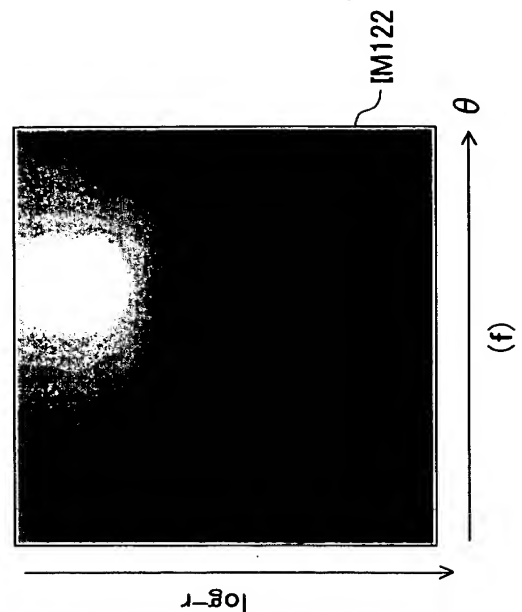
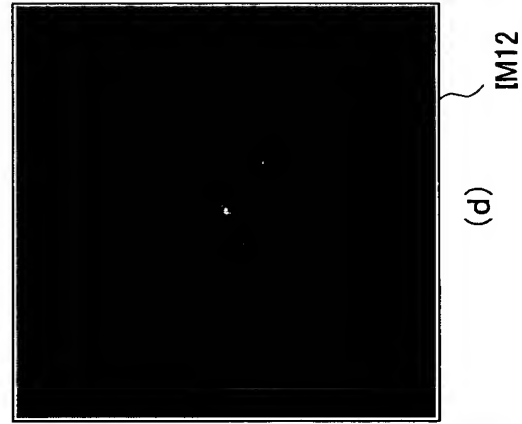
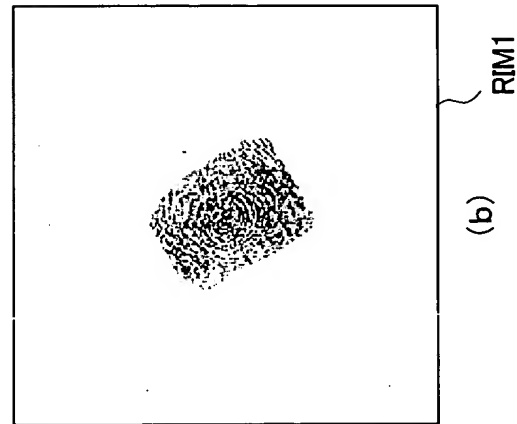
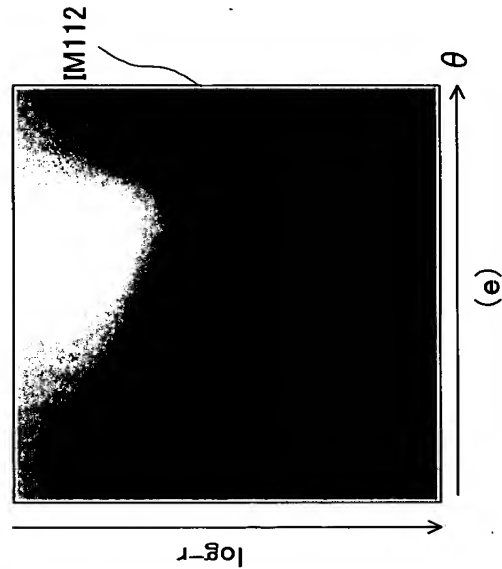


FIG. 11

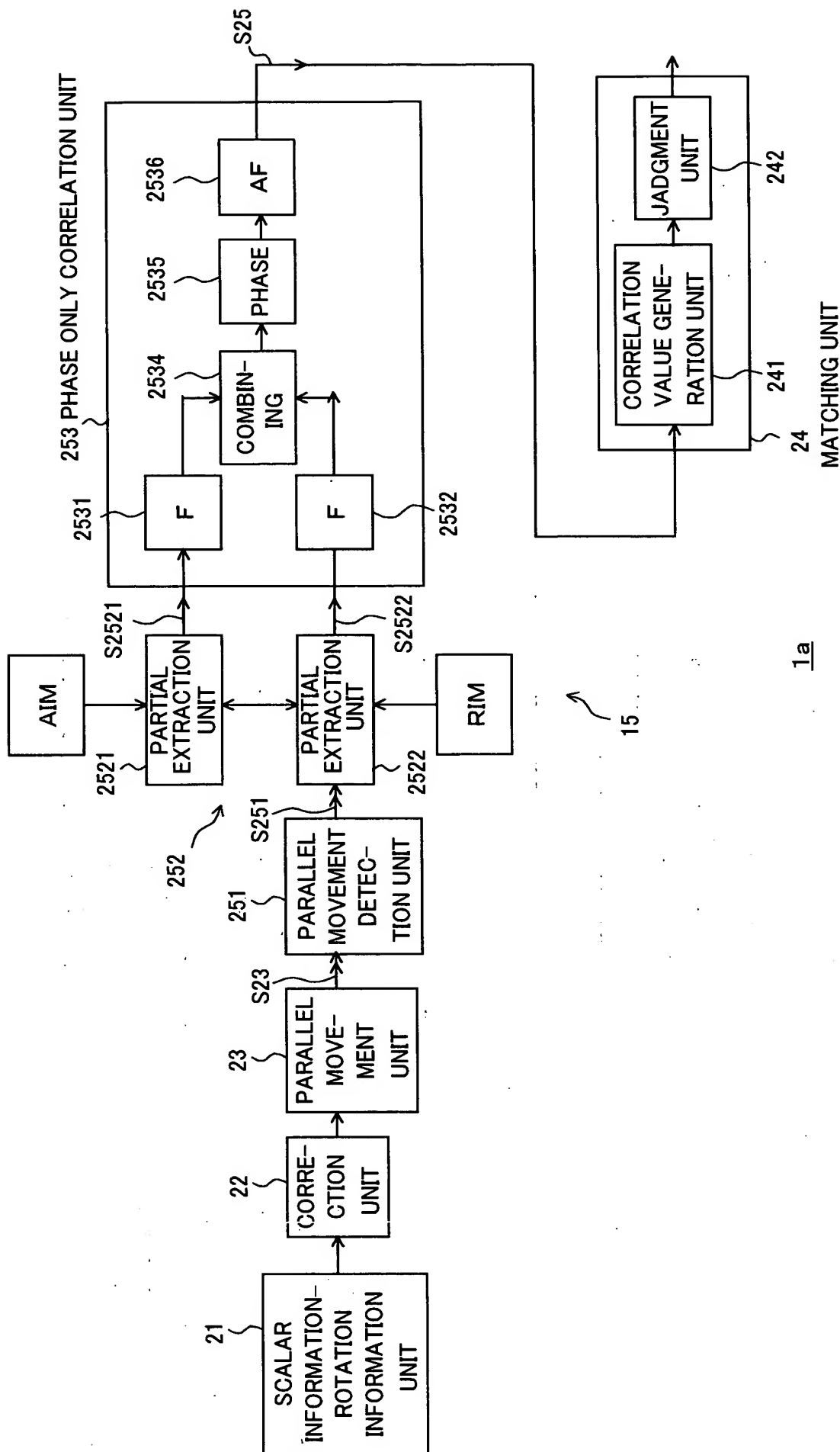


FIG. 12

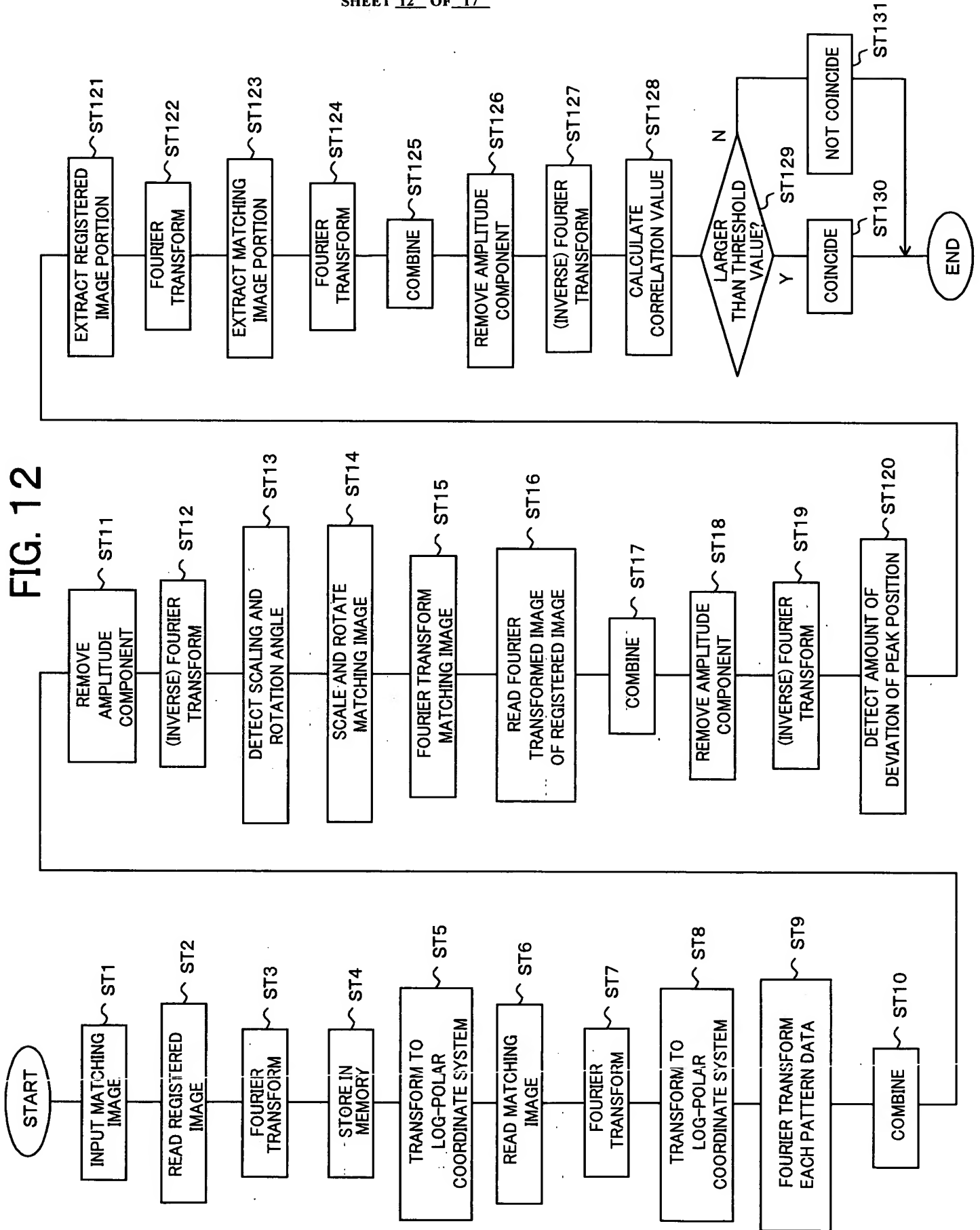


FIG. 13

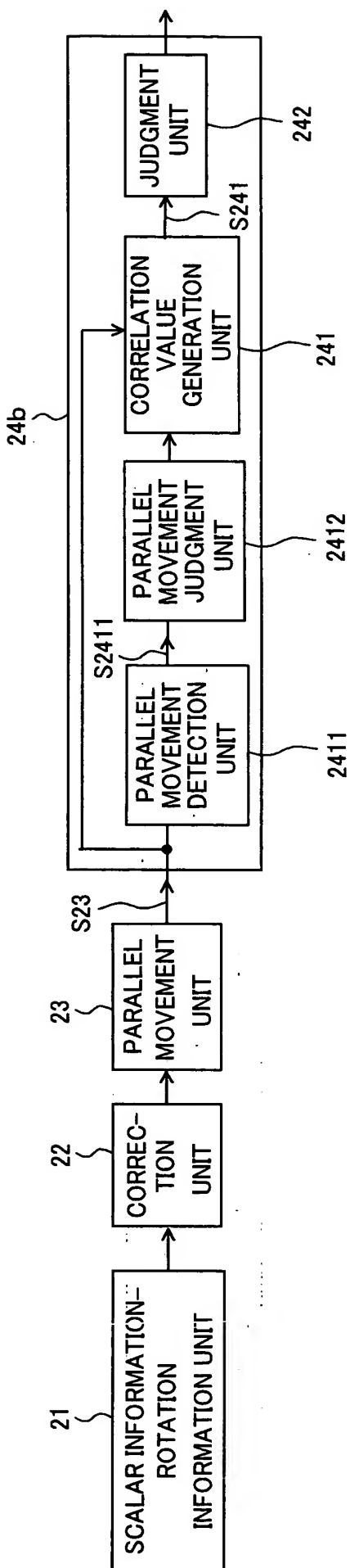


FIG. 14

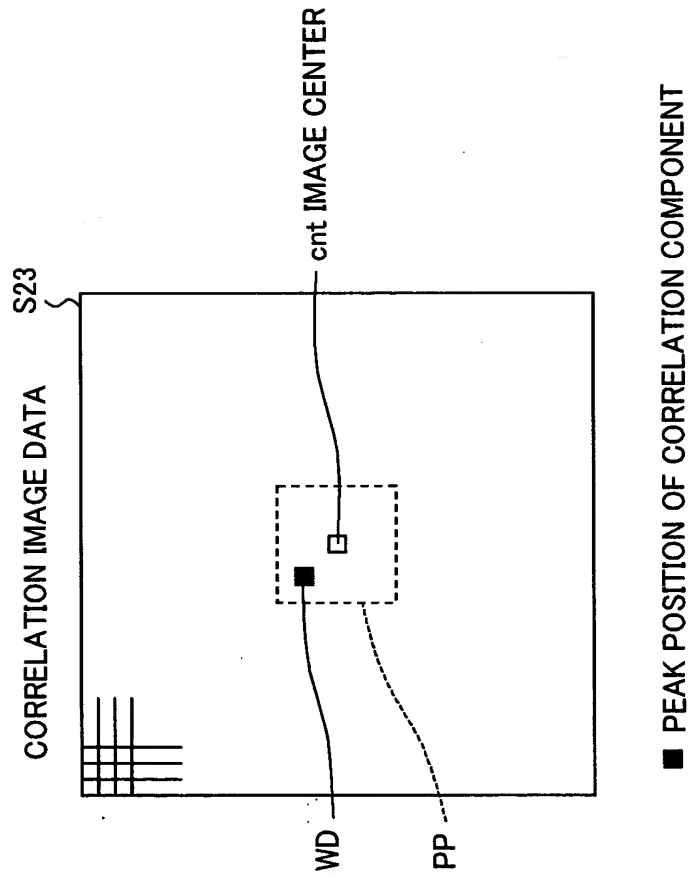


FIG. 15

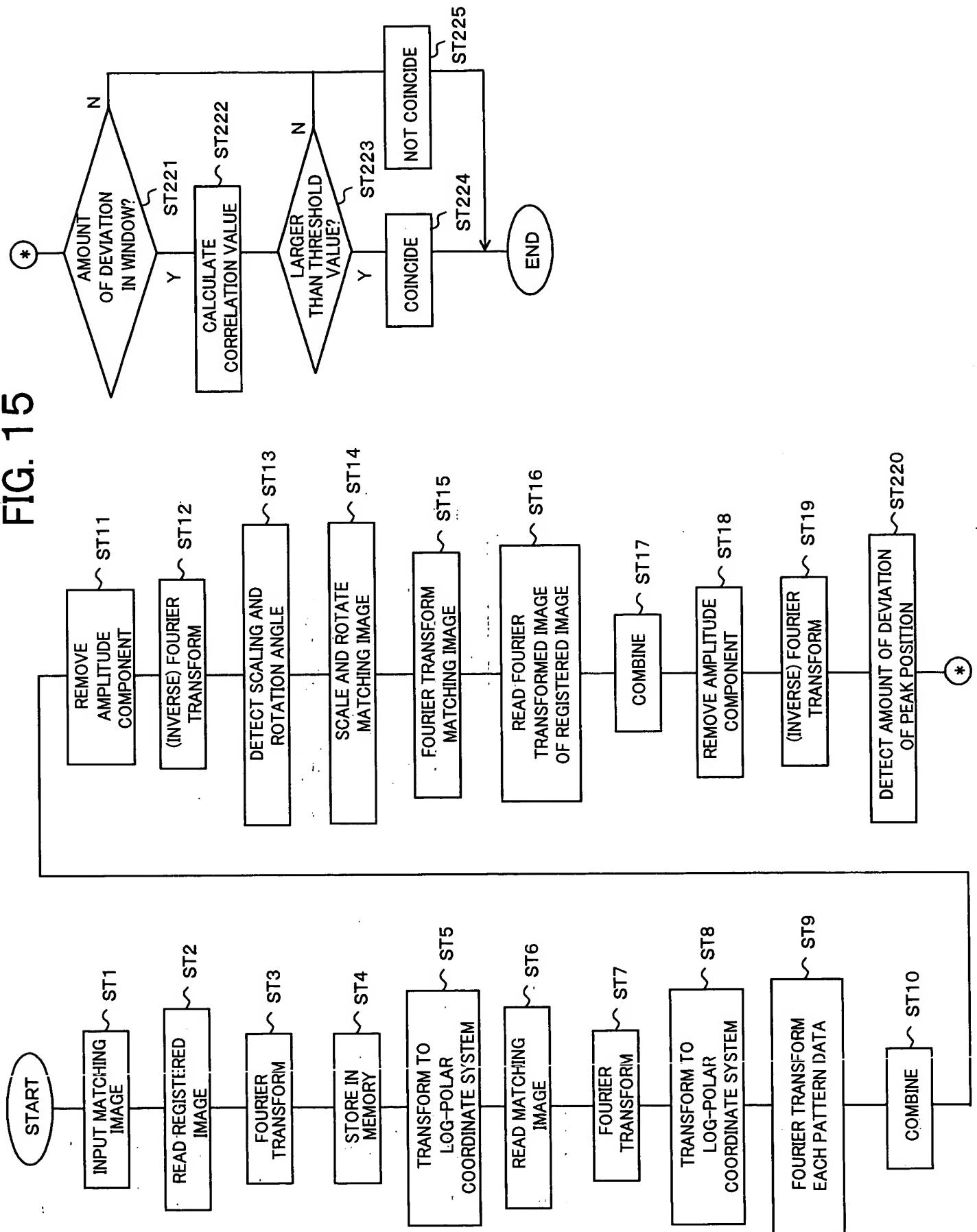




FIG. 17

